

```
class User(db.Model):
    user_id = db.Column(db.Integer, primary_key=True)
    user_name = db.Column(db.String(255), nullable=False)
    password = db.Column(db.String(255), nullable=False)
    user_role = db.Column(db.Integer, db.ForeignKey('role.role_id'), nullable=False)
    role = db.relationship('Role', backref='users')
```

```
class Role(db.Model):
    role_id = db.Column(db.Integer, primary_key=True)
    role_name = db.Column(db.String(255), nullable=False)
```

```
class Category(db.Model):
    category_id = db.Column(db.Integer, primary_key=True)
    category_name = db.Column(db.String(255), nullable=False)
```

```
class Product(db.Model):
    product_id = db.Column(db.Integer, primary_key=True)
    product_name = db.Column(db.String(255), nullable=False)
    price = db.Column(db.Float, nullable=False)
    seller_id = db.Column(db.Integer, db.ForeignKey('user.user_id'), nullable=False)
    category_id = db.Column(db.Integer, db.ForeignKey('category.category_id'),
    nullable=False)
    seller = db.relationship('User', backref='products')
    category = db.relationship('Category', backref='products')
```

```
class Cart(db.Model):
    cart_id = db.Column(db.Integer, primary_key=True)
    total_amount = db.Column(db.Float, nullable=False)
    user_id = db.Column(db.Integer, db.ForeignKey('user.user_id'), nullable=False)
    user = db.relationship('User', backref='carts')
```

```
class CartProduct(db.Model):
    cp_id = db.Column(db.Integer, primary_key=True)
    cart_id = db.Column(db.Integer, db.ForeignKey('cart.cart_id'), nullable=False)
    product_id = db.Column(db.Integer, db.ForeignKey('product.product_id'),
nullable=False)
    quantity = db.Column(db.Integer, nullable=False)
    cart = db.relationship('Cart', backref='cart_products')
    product = db.relationship('Product', backref='cart_products')
```